(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/040164 A1

(51) International Patent Classification:

C07D 471/04

(21) International Application Number:

PCT/KR2004/002705

- (22) International Filing Date: 22 October 2004 (22.10.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10-2003-0075962

29 October 2003 (29.10.2003) KR

- (71) Applicant (for all designated States except US): LG LIFE SCIENCES LTD. [KR/KR]; LG Twin Tower, East Tower, 20, Yoido-dong, Youngdeungpo-gu, Seoul 150-010 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SHIN, Hyun-Ik [KR/KR]; R & D Park, LG Life Sciences Ltd., 104-1 Moongi-dong, Yuseong-gu, Daejeon 305-380 (KR). CHANG, Jay-Hyok [KR/KR]; R & D Park, LG Life Sciences Ltd., 104-1 Moongi-dong, Yuseong-gu, Daejeon 305-380 (KR). LEE, Kyu-Woong [KR/KR]; R & D Park, LG Life Sciences Ltd., 104-1 Moongi-dong, Yuseong-gu, Daejeon 305-380 (KR).

- (74) Agent: CHOI, Kyu-Pal; Halla Classic Building 4F., 824-11 Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PREPARING 7-CHLORO-1-CYCLOPROPYL-6-FLUORO-4-OXO-1,4-DIHYDRO-1,8-NAPH-THYRIDINE-3-CARBOXYLIC ACID